

# **Ocular Adhesives & Sealants Adhesives Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented by Product (Natural and Synthetic), By Application (Conjunctival Surgery, Corneal Surgery, Refractive Surgery, Tissue Engineering, and Vitreo-Retinal Surgery), By End User (Ambulatory Surgical Centers, Hospitals, and Ophthalmic Clinics), By Region and competition**

<https://marketpublishers.com/r/OA2DFD7650E0EN.html>

Date: November 2023

Pages: 178

Price: US\$ 4,500.00 (Single User License)

ID: OA2DFD7650E0EN

## **Abstracts**

Global Ocular Adhesives & Sealants Adhesives Market has valued at USD 169.47 million in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 6.64% through 2028.

The global ocular adhesives and sealants market represents a specialized and crucial segment within the broader healthcare industry. These adhesives and sealants are designed specifically for ophthalmic applications, addressing the unique requirements of eye surgeries and treatments. Ocular adhesives and sealants play a pivotal role in ensuring the safety, efficacy, and comfort of ocular procedures, ranging from cataract surgery to corneal transplantations.

The global aging population is more susceptible to various eye disorders and conditions, necessitating a higher volume of ocular procedures. Ocular adhesives and sealants are critical in these surgeries, contributing to market growth. Continuous advancements in ophthalmic surgical techniques and technologies require specialized adhesive solutions that can bond delicate eye tissues, ensuring precise and stable outcomes. The trend toward minimally invasive eye surgeries, which require precision

and rapid recovery, underscores the importance of ocular adhesives and sealants. Their ease of application and effectiveness make them vital for these procedures.

Ocular adhesives and sealants must meet stringent biocompatibility standards to ensure they do not cause adverse reactions or complications in the delicate ocular environment. Ensuring safety is paramount. The ophthalmic industry is highly regulated, and these adhesives and sealants must adhere to rigorous quality and safety standards. Manufacturers must navigate complex regulations to meet compliance requirements.

The market is expected to witness a growing demand for biological sealants derived from natural sources. These sealants offer enhanced biocompatibility and promote rapid wound healing. Advancements in nanotechnology are likely to lead to the development of nano-scale ocular adhesives and sealants, enhancing precision and tissue compatibility. As teleophthalmology gains traction, ocular adhesives and sealants will play a critical role in securing ocular imaging devices and ensuring patient comfort during remote eye exams.

The global ocular adhesives and sealants market occupies a critical position within the realm of eye care, providing essential solutions for a range of ophthalmic procedures that restore and preserve vision. These specialized adhesives and sealants are indispensable for ensuring the safety, efficacy, and comfort of ocular treatments and surgeries. As the market continues to evolve, driven by advances in ophthalmic surgery, changing patient demographics, and regulatory requirements, stakeholders in the ocular adhesives and sealants sector, from manufacturers to ophthalmologists and researchers, must remain adaptive and innovative. With a focus on biocompatibility, safety, and precision, the ocular adhesives and sealants market is poised to contribute significantly to the advancement of eye care worldwide, ultimately enhancing the quality of life for millions affected by ocular conditions.

## Key Market Drivers

### Rising Advancements in Ophthalmic Surgery is Major Factor for Ocular Adhesives & Sealants Adhesives Market Growth

The global ocular adhesives and sealants market is experiencing substantial growth, primarily driven by the continuous advancements in ophthalmic surgery techniques and technologies. Ophthalmic surgery has witnessed significant advancements in recent years, spurred by innovations in surgical instruments, medical devices, and surgical

techniques. These advancements have led to safer, more precise, and less invasive procedures.

Ocular adhesives and sealants are critical components of modern ophthalmic surgery. They are used for various applications, including corneal wound closure, attachment of intraocular lenses (IOLs), sealing incisions, and tissue repair.

Advanced ophthalmic surgeries demand precision and reliability. Ocular adhesives and sealants play a crucial role in ensuring secure bonding, tissue adherence, and the prevention of complications.

Ocular adhesives and sealants are versatile, compatible with a wide range of ophthalmic procedures. They offer the flexibility to adapt to different tissue types and surgical requirements.

Continuous research and development efforts have led to advanced formulations of ocular adhesives and sealants. These formulations provide superior adhesion strength, biocompatibility, and safety, making them indispensable in modern ophthalmology.

The ongoing advancements in ophthalmic surgery have fueled the demand for specialized adhesive solutions. Ophthalmic surgeons seek adhesives and sealants that enhance surgical precision, reduce complications, and improve patient outcomes.

Cataract surgery, one of the most common ophthalmic procedures, has benefited significantly from technological advancements. Ocular adhesives and sealants are used to secure IOLs and ensure stable, leak-free incision closures.

Minimally invasive glaucoma surgery (MIGS) is another area where ocular adhesives and sealants are essential. They are used to create watertight seals, reducing the risk of postoperative complications.

Corneal transplantation procedures have also witnessed improvements. Ocular adhesives and sealants are used to ensure graft stability and adherence.

The global ocular adhesives and sealants market is experiencing robust growth, primarily driven by the ongoing advancements in ophthalmic surgery. Ocular adhesives and sealants have become indispensable in modern ophthalmology, contributing to enhanced surgical outcomes, patient safety, and comfort. As the field of ophthalmic surgery continues to evolve and embrace cutting-edge technologies, the market for

ocular adhesives and sealants is expected to thrive. Manufacturers and suppliers in this market must remain at the forefront of technology and innovation to meet the evolving demands of ophthalmic surgeons and ensure continued growth while advancing the standards of eye care worldwide.

### Rising Trend Toward Minimally Invasive Eye Surgeries Drives the Demand for Ocular Adhesives & Sealants Adhesives Market

The global ocular adhesives and sealants market is experiencing substantial growth, primarily driven by the rising trend toward minimally invasive eye surgeries. Minimally invasive eye surgeries have gained significant prominence in the field of ophthalmology. These procedures are characterized by smaller incisions, reduced trauma to eye tissues, and quicker recovery times compared to traditional surgical approaches.

Ocular adhesives and sealants play a critical role in minimally invasive eye surgeries. They are used for various applications, including corneal wound closure, securing intraocular devices, and sealing incisions to prevent leakage.

Minimally invasive eye surgeries require precise and reliable adhesion to ensure the integrity of surgical closures and to minimize the risk of complications. Ocular adhesives and sealants must provide exceptional bonding strength and biocompatibility.

Ocular adhesives and sealants are versatile and adaptable to a wide range of ophthalmic procedures. They offer compatibility with ocular tissues and facilitate the healing process.

Ongoing research and development efforts in the ocular adhesive and sealant industry have led to advanced formulations. These formulations provide improved adhesion properties, tissue compatibility, and safety profiles, making them ideal for minimally invasive eye surgeries.

The increasing trend toward minimally invasive eye surgeries has created a growing demand for specialized adhesive solutions. Ophthalmic surgeons seek adhesives and sealants that enhance the precision and success of these procedures.

Cataract surgery, one of the most common ophthalmic procedures, has witnessed a shift toward minimally invasive techniques. Ocular adhesives and sealants are used to secure intraocular lenses (IOLs) and close incisions with precision.

Minimally invasive glaucoma surgery (MIGS) is another area where ocular adhesives and sealants are utilized to create a watertight seal, reducing the risk of postoperative complications.

The global ocular adhesives and sealants market is experiencing robust growth, primarily fueled by the rising trend toward minimally invasive eye surgeries. Ocular adhesives and sealants have become indispensable in modern ophthalmology, contributing to improved surgical outcomes, patient comfort, and safety. As the popularity of minimally invasive procedures continues to grow in the field of eye surgery, the market for ocular adhesives and sealants is expected to thrive. Manufacturers and suppliers in this market must remain at the forefront of technology and innovation to meet the evolving demands of ophthalmic surgeons and ensure continued growth while promoting the advancement of eye care worldwide.

### Growing Eye Disorders and Conditions

The global ocular adhesives and sealants market is experiencing substantial growth, largely driven by the increasing prevalence of eye disorders and conditions. The world is witnessing a steady rise in the incidence of eye disorders and conditions, including cataracts, glaucoma, macular degeneration, diabetic retinopathy, and various corneal diseases. These conditions often necessitate surgical intervention for treatment and vision preservation.

Ocular adhesives and sealants have become essential components of eye surgeries and treatments. They are used to ensure the integrity of surgical incisions, secure implanted devices, and promote tissue healing.

In ophthalmic procedures, precise and reliable bonding is critical to prevent complications, such as infection, leakage, and tissue damage. Ocular adhesives and sealants must provide robust adhesion, biocompatibility, and safety.

Ocular adhesives and sealants are versatile and adaptable to a wide range of ophthalmic applications. They are employed in cataract surgery, glaucoma procedures, corneal transplants, and retinal surgeries, among others.

Ongoing research and development efforts have led to advanced formulations of ocular adhesives and sealants. These formulations offer improved adhesion strength, flexibility, and tissue compatibility, making them indispensable in modern ophthalmology.

The increasing prevalence of eye disorders and conditions has created a growing demand for specialized adhesive solutions. Ophthalmologists and eye surgeons seek adhesives and sealants that enhance the precision, safety, and success of eye surgeries.

The aging global population is particularly susceptible to age-related eye conditions such as cataracts and macular degeneration. As the demographic of older individuals increases, so does the demand for eye-related medical interventions.

The worldwide rise in diabetes has contributed to a surge in diabetic retinopathy cases, necessitating surgical treatments that rely on ocular adhesives and sealants for effective outcomes.

The global ocular adhesives and sealants market is experiencing robust growth, primarily fueled by the growing incidence of eye disorders and conditions. Ocular adhesives and sealants have become indispensable in addressing these health challenges, contributing to improved surgical outcomes, patient safety, and vision preservation. As eye health trends continue to evolve and the global population ages, the market for ocular adhesives and sealants is expected to thrive. Manufacturers and suppliers in this market must remain at the forefront of technology and innovation to meet the evolving demands of eye care professionals and ensure continued growth while enhancing the quality of vision-related healthcare worldwide.

## Key Market Challenges

### Biocompatibility and Safety

Biocompatibility and safety concerns stand as significant impediments to the growth of the global ocular adhesives and sealants market. These specialized adhesives and sealants are critical in ophthalmic surgeries, ensuring proper wound closure and preventing post-operative complications. However, the eye is an extremely sensitive and delicate organ, and any product used in ocular procedures must be biocompatible and safe to avoid adverse reactions or complications.

Meeting the stringent safety and biocompatibility standards set for ocular adhesives and sealants can be a technically challenging and resource-intensive endeavor. Extensive testing, clinical trials, and adherence to strict regulatory guidelines are essential but can be time-consuming and costly.



Healthcare professionals and patients alike prioritize safety and efficacy in ocular procedures, making it crucial for manufacturers to invest in research and development to create adhesives and sealants that excel in biocompatibility and safety while maintaining strong bonding properties. Collaborations with ophthalmic experts and strict quality control measures are also essential to address these concerns and foster growth in the ocular adhesives and sealants market while ensuring patient well-being.

## Regulatory Compliance

Regulatory compliance serves as a significant hindrance to the growth of the global ocular adhesives and sealants market. These specialized adhesives and sealants play a critical role in ophthalmic surgeries, ensuring safe and effective wound closure. However, due to the sensitivity and high-risk nature of ocular procedures, regulatory bodies impose stringent standards to guarantee patient safety and product efficacy.

Meeting these rigorous regulatory requirements can be an intricate and time-consuming process. Manufacturers must engage in extensive preclinical and clinical testing, invest in documentation, and adhere to strict quality control measures to obtain approvals for their products. The complexity of regulatory compliance often results in delayed market entry and increased development costs.

To address this challenge and promote growth in the ocular adhesives and sealants market, manufacturers should prioritize regulatory affairs expertise, proactively engage with regulatory authorities, and stay updated with evolving standards. Streamlining regulatory processes, harmonizing requirements internationally, and fostering collaboration between industry stakeholders and regulatory bodies can help expedite product approvals and stimulate market expansion while upholding the highest safety and efficacy standards in ocular care.

## Key Market Trends

### Advancement in Teleophthalmology

Advancements in teleophthalmology are emerging as a pivotal trend in the global ocular adhesives and sealants market. Teleophthalmology involves the use of telecommunication technologies to provide remote eye care and consultations, enabling patients to receive ophthalmic assessments and guidance without the need for in-person visits to eye care professionals.

This trend is significantly impacting the market by expanding the reach of eye care services and increasing the need for ocular adhesives and sealants. Teleophthalmology has gained momentum, especially in remote or underserved areas where access to specialized eye care is limited. Ocular adhesives and sealants play a vital role in various eye surgeries and procedures, including cataract surgeries, corneal transplants, and retinal surgeries, ensuring secure wound closure and tissue repair.

As teleophthalmology continues to grow, the demand for high-quality ocular adhesives and sealants is expected to surge, as these products are essential for maintaining the safety and efficacy of remote eye surgeries and treatments. Consequently, advancements in teleophthalmology are reshaping the landscape of the ocular adhesives and sealants market by expanding its applications and driving innovation in adhesive technologies.

### Nanotechnology Integration

The integration of nanotechnology represents a significant trend shaping the global ocular adhesives and sealants market. Nanotechnology involves the manipulation of materials at the nanoscale, enabling the development of adhesive and sealant formulations with enhanced properties and precision.

In the field of ophthalmology, nanotechnology has led to the creation of advanced ocular adhesives and sealants that offer several advantages. Nanoparticles can be engineered to improve adhesion strength, reduce tissue inflammation, and enhance the biocompatibility of these products. Additionally, nanoscale formulations allow for precise and targeted delivery of adhesives and sealants to specific eye tissues during surgeries, ensuring optimal wound closure and tissue repair.

The application of nanotechnology in ocular adhesives and sealants also holds promise for developing innovative therapies for eye diseases and disorders, such as glaucoma and macular degeneration. As a result, the global ocular adhesives and sealants market is witnessing the integration of nanotechnology as a driving force, enabling the creation of safer and more effective products for ophthalmic surgeries and treatments.

### Segmental Insights

### Product Insights



Based on the Product, the natural segment emerged as the dominant player in the global market for Ocular Adhesives & Sealants Adhesives due to its inherent advantages in terms of biocompatibility and safety. Ocular procedures involve delicate eye tissues and require adhesive solutions that pose minimal risk of adverse reactions or complications. Natural adhesives, often derived from biological sources, align well with the ocular environment, reducing the likelihood of tissue irritation or rejection.

Furthermore, the human body tends to respond more favorably to natural materials, enhancing patient comfort and facilitating rapid wound healing in the delicate eye area. Biologic sealants, a subset of natural adhesives, have gained significant traction for their ability to provide effective tissue bonding while minimizing the risk of adverse events.

As patient safety and comfort remain paramount in ophthalmic care, the natural segment has proven its dominance by offering adhesive solutions that align closely with these critical requirements.

### End User Insights

The Ophthalmic Clinics segments are projected to experience rapid growth during the forecast period. Ophthalmic clinics are specialized healthcare facilities dedicated exclusively to eye care, including diagnostic evaluations, surgeries, and post-operative care. Ophthalmic clinics are staffed with highly trained ophthalmologists and eye care professionals who possess specialized knowledge and skills in the field. Their expertise ensures the safe and effective use of ocular adhesives and sealants in delicate eye surgeries and treatments. These clinics are equipped with state-of-the-art ophthalmic instruments and technologies, enabling precise and minimally invasive procedures that rely on ocular adhesives. The availability of advanced equipment enhances the demand for these adhesives.

Ophthalmic clinics prioritize patient care and comfort, making them ideal settings for procedures requiring ocular adhesives. Patients often choose these specialized clinics for their eye care needs, contributing to the segment's prominence. Ophthalmic clinics offer a wide range of services, including cataract surgery, corneal transplants, and retinal detachments, all of which utilize ocular adhesives and sealants extensively.

### Regional Insights

The North America region is poised to experience robust growth during the forecast

period, one pivotal driver is the rising prevalence of ocular disorders in North America. This region has witnessed an alarming increase in eye conditions, including cataracts, glaucoma, myopia, hyperopia, and eye injuries. According to a report published by the American Academy of Ophthalmology in 2022, these statistics reveal the pressing need for advanced eye care solutions. Approximately 24.4 million Americans aged 40 and older are affected by cataracts, with half of all Americans developing cataracts by the age of 75. Glaucoma impacts over 2.7 million Americans aged 40 and older, while legal blindness affects more than 1.3 million individuals in the same age group. Furthermore, myopia is prevalent, impacting 34 million Americans aged 40 and older, while hyperopia affects close to 14.2 million people in this age bracket. Eye injuries, occurring at a rate of 2.4 million incidents annually in the U.S., further underscore the need for advanced eye care solutions.

North America's strong position in the ophthalmic surgical instruments market is also bolstered by its well-built healthcare infrastructure. The region boasts state-of-the-art medical facilities, a robust network of eye care clinics, and a high level of accessibility to healthcare services. Additionally, North America is home to a skilled and highly trained cadre of ophthalmic surgeons who rely on advanced surgical instruments to provide precise and effective treatments.

Moreover, the presence of key market players in North America contributes significantly to its leadership in the ophthalmic surgical instruments sector. These established companies continually innovate and introduce advanced instruments that cater to the evolving needs of healthcare professionals and patients seeking cutting-edge eye care.

### Key Market Players

B. Braun Melsungen AG

Ocular Therapeutix, Inc.

Reliance Life-Sciences

Baxter

Medtronic PLC

Report Scope:

In this report, the Global Ocular Adhesives & Sealants Adhesives Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Ocular Adhesives & Sealants Adhesives Market, By Product:

Natural

Synthetic

Ocular Adhesives & Sealants Adhesives Market, By Application:

Conjunctival Surgery

Corneal Surgery

Refractive Surgery

Tissue Engineering

Vitreo-Retinal Surgery

Ocular Adhesives & Sealants Adhesives Market, By End User:

Ambulatory Surgical Centers

Hospitals

Ophthalmic Clinics

Ocular Adhesives & Sealants Adhesives Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

Australia

South Korea

Europe

France

United Kingdom

Italy

Germany

Spain

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Ocular Adhesives & Sealants Adhesives Market.

### Available Customizations:

Global Ocular Adhesives & Sealants Adhesives market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

### Company Information

Detailed analysis and profiling of additional market players (up to five).

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